

ABSTRACT

A method and apparatus for repairing a severed spinal cord using natural processes and patient's own resources, which 5 includes removing cells from the patient, such as embryonic and somatic cells, and a segment of vein from the patient. The vein segment is used to encase the severed portion of the spinal cord. The cultured cells of the patient are injected into the encasement of vein segment surrounding the severed 10 spinal cord. A chip that can generate a magnetic or electric field is then placed on top of the vein to provide a magnetic or electric field on the severed area of the spinal cord that includes the patient's cultured cells. The purpose is to repair spinal cord damage through regeneration using a 15 patient's own cells and magnetic or electromagnetic energy.